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DB=USPT; PLUR=YES; OP=ADJ

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DB=TDBD; PLUR=YES; OP=ADJ

L26	L22	0	L26

DB=DWPI; PLUR=YES; OP=ADJ

L25	L22	0	L25

DB=EPAB; PLUR=YES; OP=ADJ

L24	L22	0	L24

DB=JPAB; PLUR=YES; OP=ADJ

L23	L22	0	L23

DB=PGPB; PLUR=YES; OP=ADJ

L22	(installer$ near5 device$) and resource-constrain$ and (trust$ or secure) and (untrust$ or unsecure$)	0	L22

DB=USPT; PLUR=YES; OP=ADJ

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L20	l15 and resourc$ and User$	1	L20
L19	l15 and resourc$ near5 User$	0	L19
L18	l15 and (resource$ near5 cnstrain$)	0	L18
L17	l15 and api and binary and resource	1	L17
L16	L15 and (content$ or applet$ or instal$ or device$) and (verif$ or test$ or debug$)	1	L16
L15	6230312.pn.	1	L15
L14	L13 and execut$ and api	16	L14
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L9	5966702.pn.	1	L9
L8	l1 and binary$	0	L8
L7	l1 and (execut$ and api)	1	L7
L6	l1 and (execut$ same api)	0	L6
L5	l1 and (execut$ near5 api)	0	L5
L4	l1 and (instal$ or download$ Or load$) near5 (network$ or internet$)	1	L4
L3	l1 and (content$ or applet$ or devic$ or installer$)	1	L3
L2	L1 and (verif$ or test$ or debug$)	1	L2
L1	6427227.pn.	1	L1

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l15 and (secur$ or trust$)	1

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Search:

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L21
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L19	l15 and resourc$ near5 User$	0	L19
L18	l15 and (resource$ near5 cnstrain$)	0	L18
L17	l15 and api and binary and resource	1	L17
L16	L15 and (content$ or applet$ or instal$ or device$) and (verif$ or test$ or debug$)	1	L16
L15	6230312.pn.	1	L15
L14	L13 and execut$ and api	16	L14
L13	L11 and (debug$ or verif$)	153	L13
L12	L11 and (debud$ or verif$)	116	L12
L11	(binary near5 compatib$)	592	L11
L10	L9 and (binary near5 compat$)	1	L10
L9	5966702.pn.	1	L9
L8	l1 and binary$	0	L8
L7	l1 and (execut$ and api)	1	L7
L6	l1 and (execut$ same api)	0	L6
L5	l1 and (execut$ near5 api)	0	L5
L4	l1 and (instal$ or download$ Or load$) near5 (network$ or internet$)	1	L4
L3	l1 and (content$ or applet$ or devic$ or installer$)	1	L3
L2	L1 and (verif$ or test$ or debug$)	1	L2
L1	6427227.pn.	1	L1

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Terms	Documents
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	DB=EPAB; PLUR=YES; OP=ADJ		
L24	L22	0	L24
	DB=JPAB; PLUR=YES; OP=ADJ		
L23	L22	0	L23
	DB=PGPB; PLUR=YES; OP=ADJ		
L22	(installer$ near5 device$) and resource-constrain$ and (trust$ or secure) and (untrust$ or unsecure$)	0	L22
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Citation

Debugging concurrent programs

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↑ ABSTRACT

The main problems associated with debugging concurrent programs are increased complexity, the "probe effect," nonrepeatability, and the lack of a synchronized global clock. The probe effect refers to the fact that any attempt to observe the behavior of a distributed system may change the behavior of that system. For some parallel programs, different executions with the same data will result in different results even without any attempt to observe the behavior. Even when the behavior can be observed, in many systems the lack of a synchronized global clock makes the results of the observation difficult to interpret. This paper discusses these and other problems related to debugging concurrent programs and presents a survey of current techniques used in debugging concurrent programs. Systems using three general techniques are described: traditional or breakpoint style debuggers, event monitoring systems, and static analysis systems. In addition, techniques for limiting, organizing, and displaying a large amount of data produced by the debugging systems are discussed.

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l22 and (unsecur$ or untrust$)	1

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L25	l22 and (secur$ or trust$)	3	L25
L24	L23 and (binary near5 compat$)	0	L24
L23	L22 and execut$	8	L23
L22	L21 and l7	8	L22
L21	((717/126 |717/127 |717/124)!.CCLS.)	415	L21
L20	L19 and (resource$ and constrain$)	1	L20
L19	5966702.pn.	1	L19
L18	L17 and (resource$ near5 constrain$)	0	L18
L17	L16 and binary	11	L17
L16	l14 and untrust$	14	L16
L15	L14 and (post near4 issu$ near5 instal$)	0	L15
L14	l7 and trust$	49	L14
L13	l8 and (binary near5 compat$)	1	L13
L12	(post near5 issuance near4 installer$)	0	L12
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